Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

of Work: Improvements to roads and Drains at Allalsandra village in ward no-04 of Yelahanka Satellite Town Sub Division

Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
l Work								
ıoving and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
Basic rate	105.00							
Area Weightage 6%	6.30							
Total	**111.30**							
	Sqm							
ilt								
lsandra								
main		2	300.00	0.90		540.00		
uct 40% missing						216.00		
						324.00	**111.30**	**36,061.20**
RB 300-1. **Earthwork excavation by manual means** for roads, drains & similar works in ordinary excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly r breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead								
Basic rate	130.00							
Area Weightage 6%	7.80							
Loading and Unloding & Lead, 8KM	77.48							
Total	**215.28**							
	Cum							
lsandra								
main		2	300.00	0.60	0.30	108.00		
Kerb stone		2	300.00	0.20	0.20	24.00		
						132.00	**215.28**	**28,416.96**
RB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with shed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine regates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by ation including curing for 14 days including cost of all materials, labour, HOM curing, form works, ffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
Basic rate	5115.00							
Area Weightage 6%	306.90							
Total	**5421.90**							
	Cum							
ılsandra								
Kerb stone		2	300.00	0.20	0.10	12.00		
						12.00	**5421.90**	**65,062.80**
viding and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and tom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 stering and finishing cutting including formwork, curing, including cost of materials, labour rges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the ection of Engineer incharge. (P.No.27, I.No.5.30)								
Basic rate	408.00							
Area Weightage 6%	24.48							

scription of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
Total	432.48							
	Nos							
ndra								
rb stone		2	300.00			600.00		
						1333.00	432.48	576495.84

ng two coats after filling the surface with synthetic enamel paint in approved shades on new red concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 ication No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)

Basic rate	80.00							
Area Weightage 6%	4.80							
Total	84.80							
	Sqm							
andra								
rb stone		2	300.00		0.40	240.00		
						240.00	84.80	20,352.00

ding and Fixing **pre cast covering Slab 100mm thick** made out of CC 1:2:4 and jelly 20mm size with steel reinforcement including form work,curing,including cost of alll materials, r,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As ngineer incharge. (Data Rate)

Data rate	2337.00							
	Sqm							
andra								
ng slabs						216.00		
						216.00	2337.00	504792.00

B M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting oading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, s and cross sections, and transportation with a lead of 1.00 km and complete as per fications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km (I No-19.14,P No-143,KPWD SR 2018-19)

Basic rate	41.00							
Area Weightage 6%	2.46							
8km Lead	20.48							
Total	63.94							
	Cum							
ortion/widening								
sandra								
ain		2	738.00	1.90	0.25	701.10		
						701.10	63.94	44,828.33

truction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse ed crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant MC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on ared surface and compacting with vibratory power roller to achieve the 98 % proctor density, plete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)

Basic rate	1882.00							
Area Weightage 6%	112.92							
Total	1994.92							
	Cum							
Portion/widening								

cription of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
ndra								
n		2	738.00	1.90	0.15	420.66		
						420.66	**1994.92**	**839183.05**

M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / basalt to **wet mix macadam** specifications including pre mixing the material with water at mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers ver in sub-base/base course on well prepared surface and compacting with vibratory roller to the desired density complete as per specifications(P.No-155,I No-20.18)

Basic rate	1888.00							
Area Weightage 6%	113.28							
Total	**2001.28**							
rtion/widening								
ndra								
in		2	738.00	1.90	0.23	645.01		
						645.01	**2001.28**	**1290849.62**

M500-6. Providing and **applying primer coat** with S.S. bitumen emulsion on prepared surface ular base such as WMM including cleaning of road surface and spraying primer at the rate of g / sqm using mechanical means complete as per specifications Clause 502 of MORTH V n(P.No-158,I No-21.6), issue rate dated 01-07-2020

Basic rate	28.00							
Area Weightage 6%	1.68							
Total	**29.68**							
	Sqm							
rtion/widening								
ndra								
in		2	738.00	1.90		2804.40		
						2804.40	**29.68**	**83,234.59**

500-2. **Cleaning the existing black topped** surface with brooms, soft brushes and finally g with old gunny bags and / or compressed air to receive bituminous treatment including cost materials, labour, HOM complete as per specifications.(P.No-158,I No-21.2)

Basic rate	5.00							
Area Weightage 6%	0.30							
Total	**5.30**							
	Sqm							
area						2656.80		
						2656.80	**5.30**	**14,081.04**

500-7. Providing and applying **tack coat** using 80/100 grade bitumen(VG10) on the prepared topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding ing of road surface) including cost of all materials, labour, HOM complete as per specifications -161,I No-21.7) issue rate dated 01-07-2020

Basic rate	12.00							
Area Weightage 6%	0.72							
Total	**12.72**							
	Sqm							
andra								
ain		1	738.00	7.40		5461.20		
						5461.20	**12.72**	**69,466.46**

ption of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
00-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates d grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory m rollers to achieve the desired compaction in all respects complete as per specifications 5 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 01-07-2020								
Basic rate	6045.00							
Area Weightage 6%	362.70							
Total	**6407.70**							
	Cum							
on/widening								
ra								
		2	738.00	1.90	0.05	140.22		
rrection, 30%		0.3	2656.80		0.05	39.85		
						180.07	**6407.70**	**1153847.35**
g and laying **bituminous concrete 40mm thick** with hot mix plant, using crushed aggregates ied grading, premixed with bituminous binder and filler, transporting the hot mix to work ng with a paver finisher to the required grade, level and alignment, rolling with smooth , vibratory and tandem rollers to achieve the desired compaction in all respects complete as ifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity th mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder ıg of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste P.No-171,I No-21.78.12), issue rate dated 01-07-2020								
Basic rate	7111.00							
Area Weightage 6%	426.66							
Total	**7537.66**							
	Cum							
ıdra								
n		1	738.00	7.40	0.04	218.45		
						218.45	**7537.66**	**1646586.75**
M800-13.**Road Marking** with Hot Applied Thermoplastic Compound with Reflectrising Glass on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic und 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of n is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished to be level, uniform and free from streaks and holes complete as per specifications. MORTH cation No. 803(P.No-182,I No-24.15)								
Basic rate	429.00							
Area Weightage 6%	25.74							
Total	**454.74**							
	Sqm							
ındra								
ain		2.5	738.00	0.10		184.50		
						184.50	**454.74**	**83,899.53**

scription of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
M800-35. **Supply and Installtion of Moulded Shank Raised Pavement Markers** made of rbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with prismatic lens capable of providing total internal reflection of the light entering the lens face all support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH ır No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not d 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and ope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical s, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a ıum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, ut nails and using epoxy resin based adhesive as per manufacturer's recommendation and lete as directed by the engineer.(P.No-187,I No-24.41)								
Basic rate	337.00							
Area Weightage 6%	20.22							
Total	357.22							
	Nos							
sandra								
s rd-3(upto dead end)		3	99.00			297.00		
						297.00	357.22	106094.34
							Total Construction Cost	6563251.87
							Towards GST 12%	787590.22
							DPR & PMC Charges 2%	149000.00
							Sub Total	7499842.09
							Miscellaneous & Rounding Off	157.91
							Total	7500000.00

tificate

he workspot was inspected and works is found to be necessary.

he area comes within the Bruhat Bangalore Mahanagara Palike limits.

he rates adopted based on the PWD SR,Bangalore circle for year 2018-2019,

ıe rates dated 01-07-2020 and Data Rates

Assistant Engineer
Ward 02
BBMP Bangalore

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer
Yelahanka Division
BBMP Bangalore

A... Sanction for Rs. 75.00 lakhs
.....
.....
accord... ..nder head .....
.....P-3859.....
.....
Registered as CE No. ..... Subject
to conditions contained in enclosed memo
No. E.E./Y.N.T./A.S./19/2021 Dt: 8/8/2020

Technical Sanction
Accorded For Rs.75.00 Lakhs only
Head of A/C P 3859
CER NO : 98 Dt: 28/8/2020
TA CE (YNK)